

composite layer; and
a nonstick sealing layer attached to one side of
the polymer composite layer for filling the gaps
to prevent air permeation;

wherein when heated by hot air, the heat of the hot
air will degrade the sealing ability of the sealing
layer, or open the pseudo-closed tiny gaps, and the
hot air can easily permeate through the sealed gaps
of the polymer composite layer when the air pressure
exerted by the hot air on the first side of the
composite film is greater than the air pressure on
the other side of the composite film; on the other
hand, when the heating source is removed, the
temperature of the composite film decreases and the
sealing ability of the sealing layer is restored.

4. (Once amended) The composite film of claim 1 wherein
the polymer layer contains one or more layers each
made by one of the following materials: acrylic
resins, polyester, polyethylene (PE),
polypropylene (PP), copolymer of PE and PP,
ethylene-styrene copolymer (ES), cyclo olefin,
polyethylene terephthalate (PET), polyvinyl
alcohol (PVA), ethylene-vinyl acetate (EVA),
ethylene/methacrylic acid (E/MAA) ionomer,
polyethylene naphthalate (PEN), poly ether ether
ketone (PEEK), polycarbonate (PC), polysulfone,
polyimide (PI), polyacrylonitrile (PAN), styrene
acrylonitrile (SAN), polyurethane (PU), synthetic
papers, glassine papers, or polyolefin coated paper.

10. (Once amended) A composite film comprising a first

layer, and a second layer laminated on the first layer, the composite film comprising a top face on the first layer and a bottom face on the second layer, the composite film being perforated by virtue of an impression process, thereby forming a plurality of tiny gaps in the composite film which are pseudo-closed for air permeation initially, the size of the tiny gaps being varied according to a pressure difference between the two sides of the composite layer.

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11. (Once amended) The composite film of claim 10 wherein the composite film further comprises a sealing layer attached to one side of the composite film for filling the tiny gaps.

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12. (Once amended) The composite film of claim 10 wherein the first layer is made from one of the following materials: acrylic resins, polyester, polyethylene (PE), polypropylene (PP), copolymer of PE and PP, ethylene-styrene copolymer (ES), cyclo olefin, polyethylene terephthalate (PET), polyvinyl alcohol (PVA), ethylene-vinyl acetate (EVA), ethylene/methacrylic acid (E/MAA) ionomer, polyethylene naphthalate (PEN), poly ether ether ketone (PEEK), polycarbonate (PC), polysulfone, polyimide (PI), polyacrylonitrile (PAN), styrene acrylonitrile (SAN), or polyurethane (PU).

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14. (Once amended) The composite film of claim 13 wherein the second layer is composed of a material selected from a group comprising acrylic resins, polyester,

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polyethylene (PE), polypropylene (PP), copolymer of PE and PP, ethylene-styrene copolymer (ES), cyclo olefin, polyethylene terephthalate (PET), polyvinyl alcohol (PVA), ethylene-vinyl acetate (EVA), ethylene/methacrylic acid (E/MAA) ionomer, polyethylene naphthalate (PEN), poly ether ether ketone (PEEK), polycarbonate (PC), polysulfone, polyimide (PI), polyacrylonitrile (PAN), styrene acrylonitrile (SAN), polyurethane (PU), synthetic papers, glassine papers, or polyolefin coated paper.

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18. (Once amended) The composite film of claim 10 wherein the gaps are distributed throughout the whole area or distributed within selected areas of the composite film.
